TB 11-2661-1

Changes No. 1

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

SUPPLEMENTARY TEST DATA FOR TEST SETS, ELECTRON TUBE TV-2/U, TV-2A/U AND TV-2B/U

Headquarters, Department of the Army, Washington 25, D.C. 26 July 1960

TB 11-2662-1, 27 January 1960, is changed as follows:

Page 1, paragraph 3. Add after second sentence:

The tubes marked with an asterisk (*) are listed in MIL-E-1D and are to be included in the next roll chart revision.

Page 2, paragraph 3. The following tube test data is added.

Tube type	Test	Function	Selectors (L to R)	Range				Meter setting				Shunt	Press to test	Minimum limit	Notes
				Filament	Bias	PL. SCR.	GM SIG	Plate	Bias	Screen	SIG. VR				
1S2A	EM	VR	12 00A 00	1.5	5	L	C	------	0	70	FS	45	P5	----	OK under 75. Adj. Fil. to 1.4.
2BN4A	GM	T	43 250 10	2.0	D	G	B	150	CCW	----	RL	55	P4	65	Adj. Fil. to 2.35.
2EA5	GM	T	43 156 20	2.5	5	J	B	250	1.0	140	RL	57	P4	65	Adj. Fil. to 2.3.
2EN5	EM	T	43 070 56	2.0	5	S	A	20AC	0	----	RL	80	P2	40	Diode #1.
2EN5	EM	T	43 020 56	2.0	5	S	A	20AC	0	----	RL	80	P2	40	Diode #2.
2ER5	GM	T	43 256 70	2.0	5	M	B	200	1.2	----	RL	28	P4	65	Adj. Fil. to 2.1.
3BN4A	GM	T	43 250 10	3.0	D	G	B	150	CCW	----	RL	55	P4	65	
3EA5	GM	T	43 156 20	3.0	5	J	B	250	1.6	140	RL	57	P4	65	
4BN4	GM	T	34 250 10	4.2	D	G	B	150	CCW	----	RL	70	P4	65	
4ES8	GM	T	45 760 80	4.2	5	N	B	90	1.7	----	RL	25	P4	65	Triode #1.
4ES8	GM	T	45 210 30	4.2	5	N	B	90	1.7	----	RL	25	P4	65	Triode #2.
5EU8	GM	T	45 719 80	5.0	5	K	B	150	1.0	125	RL	80	P4	65	Pentode Sect. } Adj. Fil. to
5EU8	GM	T	45 230 60	5.0	A	K	B	150	0	----	RL	50	P4	65	Triode Sect. } 4.7.
6BL8	GM	T	54 263 71	6.3	5	K	B	170	2.1	170	RL	82	P4	65	Pentode Sect.
6BL8	GM	T	54 910 86	6.3	5	N	C	100	2.0	----	RL	37	P4	65	Triode Sect.
6BN4A	GM	T	43 250 10	6.3	D	G	B	150	CCW	----	RL	55	P4	65	
6CD7	ER	T	72 450 80	6.3	50	K	E	200	------	----	------	0	P5	----	Connect a 1 megohm resistor from Pin 5 of 5 pin socket to pin 3 of large 7 pin socket. Connect another 1 meg. resistor from pin 5 of 5 pin socket to pin 6 of large 7 pin socket. Eye 1 closes at bias of about 10. Eye 2 closes at bias of about 30.

6CM5	GM	T	72 5A4 80	6.3	10	N	B	100	8.2	100	RL	22	P4	65	
6DA5	ER	T	45 19A 20	6.3	50	G	A	175	vary	150	RL	100	P4	----	Connect a 1 megohm resistor from Cap "A" to pin 7 of Loctal socket. Vary bias to vary beam angle.
6DL5	GM	T	43 156 20	6.3	10	G	C	250	9.0	250	RL	37	P4	63	
6EA5	GM	T	43 156 20	6.3	5	J	B	250	1.0	140	RL	57	P4	65	
6EA7	GM	T	78 450 60	6.3	10	J	D	250	3.0	-----	RL	50	P4	63	Triode #1.
6EA7	GM	T	78 120 30	6.3	50	L	B	175	25	-----	RL	77	P4	62	Triode #2.
6ER5	GM	T	43 256 70	6.3	5	M	B	200	1.2	-----	RL	28	P4	65	
6EU8	GM	T	45 719 80	6.3	5	K	B	150	1.0	125	RL	80	P4	65	Pentode Sect.
6EU8	GM	T	45 230 60	6.3	A	K	B	150	0	-----	RL	50	P4	65	Triode Sect.
6EY6	GM	T	27 534 80	6.3	50	G	C	250	17.5	-----	RL	43	P4	63	
6EZ8	GM	T	54 980 00	6.3	10	M	D	125	5.6	-----	RL	17	P4	63	Triode #1.
6EZ8	GM	T	54 760 00	6.3	10	M	D	125	5.6	-----	RL	17	P4	63	Triode #2.
6EZ8	GM	T	54 230 10	6.3	5	M	D	125	1.0	-----	RL	17	P4	63	Triode #3.
6FM8	GM	T	45 890 70	6.3	5	G	D	250	3.0	-----	RL	68	P4	65	Triode Sect.
6FM8	EM	T	45 060 10	6.3	5	S	A	20AC	0	-----	RL	50	P2	50	Diode #1.
6FM8	EM	T	45 020 30	6.3	5	S	A	20AC	0	-----	RL	50	P2	50	Diode #2.
6FV6	GM	T	43 156 70	6.3	5	L	C	125	1.0	80	RL	35	P4	65	
6GH8	GM	T	45 263 70	6.3	5	K	B	125	1.0	125	RL	70	P4	63	Pentode Sect.
6GH8	GM	T	45 910 80	6.3	5	K	B	125	1.0	-----	RL	49	P4	63	Triode Sect.
6X6	ER	T	72 540 86	6.3	5	G	F	230	0	230	RL	0	P4	----	Eyes open.
6X6	ER	T	72 543 86	6.3	5	G	F	230	0	230	RL	0	P4	----	Eyes closed.
9BR7	GM	T	54 210 30	10.0	E	J	B	250	CCW	-----	RL	95	P4	65	Triode Sect. } Adj.
9BR7	EM	T	54 070 80	10.0	5	S	A	20AC	0	-----	RL	65	P2	40	Diode #1. } Fil.
9BR7	EM	T	54 060 80	10.0	5	S	A	20AC	0	-----	RL	65	P2	40	Diode #2. } to 9.4.
10DR7	GM	T	54 760 80	10.0	5	J	D	250	3.0	-----	RL	56	P4	65	Triode #1.
10DR7	GM	T	54 210 90	10.0	50	M	C	150	17.5	-----	RL	52	P4	65	Triode #2.
10EG7	GM	T	78 450 60	10.0	50	J	C	225	12.0	-----	RL	88	P4	63	Triode #1.
10EG7	GM	T	78 120 30	10.0	50	M	B	150	17.5	-----	RL	62	P4	63	Triode #2.
12DT7	GM	T	45 760 80	12.6	5	J	D	250	2.0	-----	RL	60	P4	65	Triode #1.
12DT7	GM	T	45 210 30	12.6	5	J	D	250	2.0	-----	RL	60	P4	65	Triode #2.
12DW8	EM	T	54 760 80	12.6	5	S	B	20AC	0	-----	RL	28	P2	65	Triode #1. } Make no gas
12DW8	EM	T	54 210 30	12.6	5	S	B	20AC	0	-----	RL	17	P2	65	Triode #2. } test.

Tube type	Test	Function	Selectors (L to R)	Range				Meter setting				Shunt	Press to test	Minimum limit	Notes
				Filament	Bias	PL. SCR	GM SIG	Plate	Bias	Screen	SIG. VR				
12DW8	EM	T	54 090 80	12.6	5	S	B	20AC	0	-----	RL	17	P2	50	Diode Sect.
12ED5	GM	T	34 276 10	12.6	10	K	B	125	4.5	125	RL	47	P4	65	
12FT6	EM	T	43 170 20	12.6	5	S	B	20AC	0	-----	RL	64	P2	65	Triode Sect. Make no gas test.
12FT6	EM	T	43 060 20	12.6	5	S	B	20AC	0	-----	RL	40	P2	50	Diode #1.
12FT6	EM	T	43 050 20	12.6	5	S	B	20AC	0	-----	RL	40	P2	50	Diode #2.
13DR7	GM	T	54 760 80	12.6	5	J	D	250	3.0	-----	RL	56	P4	65	Triode #1 } Adj. Fil. to 13.0.
13DR7	GM	T	54 210 90	12.6	50	M	C	150	17.5	-----	RL	52	P4	65	Triode #2 }
18FW6	GM	T	43 156 72	20.0	B	N	C	110	CCW	110	RL	47	P4	65	Adj. Fil. to 18.0.
18FX6	GM	T	43 156 27	20.0	5	N	D	110	3.7	110	RL	78	P4	65	AMPL. Sect. } Adj. Fil. to
18FX6	GM	T	43 160 27	20.0	5	N	B	100	0	-----	RL	73	P4	65	OSC. Sect. } 18.0.
18FY6	GM	T	43 170 20	20.0	5	N	D	100	1.0	-----	RL	72	P4	65	Triode Sect. } Adj. Fil. to
18FY6	EM	T	43 060 20	20.0	5	S	B	20AC	0	-----	RL	48	P2	50	Diode Sect. } 18.0.
18FY6	EM	T	43 050 20	20.0	5	S	B	20AC	0	-----	RL	48	P2	50	Diode Sect. }
25DT5	GM	T	45 391 70	25.0	50	G	C	250	16.5	250	RL	47	P4	65	
32ET5	GM	T	43 276 10	35.0	10	K	B	115	7.0	110	RL	95	P4	65	Adj. Fil to 32.0.
50FY8	GM	T	45 367 20	50.0	50	K	B	125	10	125	RL	62	P4	63	Pentode Sect.
50FY8	GM	T	45 190 80	50.0	5	M	D	125	1.5	-----	RL	33	P4	63	Triode Sect.
*5644	VR	VR	00 001 40	OFF	5	G	F	25MA	0	-----	FS	50	P5	105	Max. } Max. Diff.
*5644	VR	VR	00 001 40	OFF	5	G	F	5MA	0	-----	FS	50	P5	85	Min. } −5.0.
*6221	GM	T	36 180 50	6.3	C	N	B	100	CCW	-----	RL	90	P4	65	
*6222	GM	T	36 180 50	6.3	5	N	C	100	1.6	-----	RL	95	P4	65	
*6223	GM	T	36 157 80	6.3	C	N	C	100	CCW	100	RL	40	P4	65	
*6225	GM	T	36 157 20	6.3	5	N	C	100	1.1	100	RL	43	P4	63	
6227	GM	T	45 278 39	6.3	5	G	B	200	3.3	200	RL	43	P4	63	
6360	GM	T	45 387 20	12.6	50	G	C	200	21.5	200	RL	61	P4	63	Tetrode #1.

															Connect negative (–) end of 30 V battery to pin 1 of loctal socket.
6360	GM	T	45 167 20	12.6	50	G	C	200	21.5	200	RL	61	P4	63	Tetrode #2. Connect negative (–) end of 30 V battery to pin 3 of loctal socket. Connect positive (+) end of 30 V battery to pin 2 of loctal socket for each test. ***Caution:*** **Disconnect battery between selector changes.**
*6414	GM	T	54 760 80	12.6	5	M	B	180	2.3	-----	RL	95	P4	65	Triode #1.
*6414	GM	T	54 210 30	12.6	5	M	B	180	2.3	-----	RL	95	P4	65	Triode #2.
6524	GM	T	53 6A1 40	6.3	10	K	C	200	6.6	200	RL	43	P4	63	Cap above octal pins 2 and 3=A. Connect negative (–) end of a 30 V battery to pin 2 of loctal socket.
6524	GM	T	53 2A1 40	6.3	10	K	C	200	6.6	200	RL	43	P4	63	Cap above octal pins 6 and 7=A. Connect negative (–) end of a 30 V battery to pin 6 of loctal socket. Connect positive (+) end of the 30 V battery to pin 4 of loctal socket for each test. ***Caution:*** **Disconnect battery between selector changes.**

Tube type	Test	Function	Selectors (L to R)	Range				Meter setting				Shunt	Press to test	Minimum limit	Notes
				Filament	Bias	PL. SCR	GM SIG	Plate	Bias	Screen	SIG. VR				
*6533	GM	T	76 210 50	6.3	5	M	C	120	1.7	----	RL	94	P4	65	
6761	GM	T	45 217 30	6.3	50	G	B	140	7.0	120	RL	25	P4	65	
*6832	GM	T	36-780-50	6.3	5	N	D	100	3.9	----	RL	86	P4	63	Triode #1.
*6832	GM	T	36 210 40	6.3	5	N	D	100	3.9	----	RL	86	P4	63	Triode #2.
*6877	GM	T	53 140 80	6.3	50	P	B	100	10.0	----	RL	78	P4	65	
6887	EM	T	43 070 10	6.3	5	S	A	20AC	0	----	RL	----	P2	50	Diode #1.
6887	EM	T	43 020 50	6.3	5	S	A	20AC	0	----	RL	----	P2	50	Diode #2.
7055	EM	T	34 070 16	12.6	5	S	A	20AC	0	0	RL	66	P2	50	Diode #1.
7055	EM	T	34 020 56	12.6	5	S	A	20AC	0	0	RL	66	P2	50	Diode #2.
7189	GM	T	45 279 30	6.3	10	G	B	250	7.0	250	RL	29	P4	65	
7247	GM	T	45 760 80	12.6	5	J	D	225	2.0	----	RL	52	P4	67	Triode #1.
7247	GM	T	45 210 30	12.6	10	J	C	225	8.5	----	RL	75	P4	65	Triode #2.

Page 26. Add paragraph 4.

4. Ballast Tube Test Data

Ballast tube type	FIL-selector switch position	FIL+selector switch positions (FIL CONT-SHORT lamp should glow in each position)
1A1/5E1	1	4
1B1	1	4
1C1	1	4
1E1	1	4
1F1	1	4
1G1	1	4
1J1	1	4
1K1	1	4
1L1	2	7
1N1	2	7
1P1	2	7
1Q1	2	7
1R1G	2	7
1S1G	2	7
1T1G	2	7
1U1G	2	7
1V1	1	4
1X1	1	4
1Y1	1	4
1Z1	1	4
2	1	4
2UR224	3	7,8
	7	8
2LR212	4	1,2,8
03G	3	7
3	1	4
4	1	4
5	1	4
6-133	3	7
6	1	4
6-6AA	2	7
7	1	4
8	1	4
9	1	4
10A	3	7
10AG	3	7
10AB	3	7,8
K17B	3	7,8
M17C	3	7,8

Ballast tube type	FIL-selector switch position	FIL+selector switch positions (FIL CONT-SHORT lamp should glow in each position)
BM17C	3	7, 8
M17H7, M17H	1	7, 8
	2	3
L23P	3	7, 8
K23C	1	7, 8
KX23B	1	3, 4
M30H	2	3
	1	7, 8
30A, K30A	3	7
K30D	3	2, 7, 8
33A, 33AG	3	7
K34B	3	7, 8
36A	3	7
K36B, BK36B	3	7, 8
L36B	3	7, 8
L36C	3	7, 8
KX36C	1	3, 4
KX36A	1	4
36D	3	2, 7, 8
L36D	3	2, 7, 8
L36DJ	4	2, 7, 8
K36H	2	3
	1	7, 8
M36H, M36HG	2	3
	1	7, 8
L40S1	3	2, 5, 7
L40S2	3	2, 5, 7
42A	3	7
42A1	4	8
42A2	4	1, 8
42B2	4	1, 8
K42B	3	7, 8
L42B	3	7, 8
M42B	3	7, 8
KX42B	1	3, 4
LX42B	1	3, 4
L42BX	3	7, 8
K42C	3	7, 8
L42C	3	7, 8
M42C	3	7, 8
KB42D	3	2, 7, 8

Ballast tube type	FIL-selector switch position	FIL+selector switch positions (FIL CONT-SHORT lamp should glow in each position)
K42D	3	2, 7, 8
L42D	3	2, 7, 8
LX42D	1	2, 3, 4
L42DX	1	2, 3, 4
K42E	3	2, 5, 7, 8
L42E	3	2, 5, 7, 8
L42F	2	3
	7	8
42HA	1	7, 8
	2	3, 4
K42HJ	4	2
	1	7, 8
M42H, M32HG	2	3
	1	7, 8
KX42C	1	3, 4
L42S1	3	5, 6
49A	3	7
49AJ, K49AJ	4	7
KX49A	1	4
49A1	4	8
49A2	4	1, 8
49B2	4	1, 8
K49B	3	7, 8
M49B, BM49B	3	7, 8
K47C	3	7, 8
M49C, BM49C	3	7, 8
BK49C	3	7, 8
K49E	3	2, 5, 7, 8
L49E	3	2, 5, 7, 8
K49D, BK49D	3	2, 7, 8
L49D	3	2, 7, 8
L49F	2	3
	7	8
M49H, M49HG	2	3
	1	7, 3
KZ59B	2	5, 7
KZ49C	2	5, 7
K49BJ	4	7, 8
L49PJ	4	7, 8
L49S2	3	2, 5, 7
49AJ, K49AJ	4	7

Ballast tube type	FIL-selector switch position	FIL+selector switch positions (FIL CONT-SHORT lamp should glow in each position)
KX49B	1	3, 4
LX49B	1	3, 4
LX49C	1	3, 4
L49DJ	4	2, 7, 8
L49S3	3	2, 5, 7
50A2	1	3, 4
50A2MG	2	3, 4
50B2	2	5, 7
50X3	1	4
K52H	2	3
	1	7, 8
M52H	2	3
	1	7, 8
K54B	3	7, 8
55A, K55A	3	7
55A1	4	8
KX55A	1	4
55B, K55B	3	7, 8
M55B, BM55B	3	7, 8
L55BG	3	7, 8
LX55B	1	3, 4
55A2	4	1, 8
55B2	4	1, 8
K55C	3	7, 8
L55C	3	7, 8
KX55C	1	3, 4

By Order of *Wilber M. Brucker*, Secretary of the Army:

L. L. LEMNITZER,
General, United States Army,
Chief of Staff.

Official:

R. V. LEE,
Major General, United States Army,
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NG: State AG (3); units—same as Active Army except allowance is one copy to each unit.
USAR: None.
For explanation of abbreviations used, see AR 320-50.

U.S. GOVERNMENT PRINTING OFFICE: 1960

*TB 11-2661-1
C 2

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

SUPPLEMENTARY TEST DATA FOR TEST SETS, ELECTRON TUBE TV–2/U, TV–2A/U AND TV–2B/U

Headquarters, Department of the Army, Washington 25, D.C.
30 March 1961

TB 11–2661–1, 27 January 1960, is changed as follows:
Page 1 (page 1 of C 1), line 8. Change "TB 11–2662–1" to: **TB 11–2661–1.**
Page 2, paragraph 3. Insert the following tube test data in the correct numerical order:

*These changes supersede paragraph 19.1 (page 2 of C 4 and page 1 of C 5) in TM 11–2661, 11 May 1955.

Tube type	Test	Function	Selectors (L to R)	Range				Meter setting				Shunt	Press to test	Minimum limit	Notes
				Filament	Bias	PL. SCR	GM SIG	Plate	Bias	Screen	SIG. VR				
0Z4A	EM	T	00 030 80	OFF	5	G	A	200	0	-----	RL	10	P2	90	DIODE #1.
0Z4A	EM	T	00 050 80	OFF	5	G	A	200	0	-----	RL	10	P2	40	DIODE #2.
0Z4G	EM	T	00 030 80	OFF	5	G	A	200	0	-----	RL	10	P2	40	DIODE #1.
0Z4G	EM	T	00 050 80	OFF	5	G	A	200	0	-----	RL	10	P2	40	DIODE #2.
1AJ4	GM	T	71 623 00	1.5	5	N	D	90	1.6	90	RL	96	P4	65	Adj. Fil. to 1.4.
1M3	ER	T	45 180 00	1.5	50	P	A	100	0	-----	RL	0	P4	------	Adj. bias to vary bar length. Do not adj. bias below 2.0 v.
1Z2	EM	T	17 0B0 00	1.1	5	G	A	225	0	-----	RL	90	P2	72	Adj. Fil. to 1.25.
2D21W	TH	VR	34 106 27	6.3	10	L	F	--------	*10	120	FS	50	P5	Bias	Volts 1.5 min, 3.0 max.
2FH5	GM	T	34 250 70	2.5	5	M	B	135	1.0	-----	RL	44	P4	63	
3A4	GM	T	17 423 00	3.0	10	N	D	75	5.7	67.5	RL	58	P4	65	Adj. Fil. to 2.8.
3B4	GM	T	45 371 00	2.5	50	H	D	200	25	150	RL	54	P4	50	
3D6/1299	GM	T	81 623 00	3.0	5	N	D	90	4.5	90	RL	38	P4	65	Adj. Fil. to 2.8.
3E29	GM	T	17 6B3 40	12.6	50	H	B	220	10	155	RL	46	P4	60	Pentode #1.
3E29	GM	T	17 2A3 40	12.6	50	H	B	220	10	155	RL	46	P4	60	Pentode #2.
3ER5	GM	T	43 256 70	3.0	5	M	B	200	1.2	-----	RL	28	P4	65	Adj. Fil. to 2.8.
3FH5	GM	T	34 250 70	3.0	5	M	B	135	1.0	-----	RL	44	P4	63	
3LE4	GM	T	81 623 00	3.0	10	N	D	90	9	90	RL	60	P4	60	Adj. Fil. to 2.8.
3LF4	GM	T	81 623 00	3.0	5	N	D	90	4.5	90	RL	41	P4	65	Adj. Fil. to 2.8.
3Q4	GM	T	71 324 00	3.0	5	N	D	90	4.5	90	RL	49	P4	65	Adj. Fil. to 2.8.
3Q5GT	GM	T	72 534 00	3.0	5	N	D	90	4.5	90	RL	41	P4	65	Adj. Fil. to 2.8.
3S4	GM	T	17 324 00	3.0	10	N	D	75	7	67.5	RL	63	P4	65	Adj. Fil. to 2.8.
3V4	GM	T	17 623 00	3.0	5	N	D	90	4.5	90	RL	44	P4	67	Adj. Fil. to 2.8.
4EW6	GM	T	43 156 27	4.2	A	G	B	150	CCW	125	RL	21	P4	65	
5FV8	GM	T	45 967 80	5.0	5	G	B	125	1.0	125	RL	77	P4	63	Pentode Sec. } Adj. Fil.
5FV8	GM	T	45 120 30	5.0	5	G	B	125	1.0	-----	RL	57	P4	63	Triode Sec. } to 4.7.

5GH8	GM	T	45 263 70	5.0	5	K	B	125	1.0	125	RL	70	P4	63	Pentode Sec. } Adj. Fil.
5GH8	GM	T	45 110 80	5.0	5	K	B	125	1.0		RL	49	P4	63	Triode Sec. } to 4.7.
5R4GY	EM	T	28 060 00	5.0	5	R	A	35AC	0		RL	52	P2	63	Diode #1.
5R4GY	EM	T	28 040 00	5.0	5	R	A	35AC	0		RL	52	P2	68	Diode #2.
6AQ4	GM	T	43 170 50	6.3	5	J	B	250	1.5		RL	42	P4	65	
6AQ5	GM	T	34 156 22	6.3	50	G	C	230	12.5	225	RL	42	P4	58	Short in Z.
6AR5	GM	T	34 156 22	6.3	50	G	D	230	18	225	RL	36	P4	65	Short in Z.
6AR6/6098	GM	T	68 735 10	6.3	50	G	C	230	22	225	RL	34	P4	65	
6BF5	GM	T	34 756 22	6.3	50	K	B	125	6.8	100	RL	61	P4	60	Short in Z.
6CR8	GM	T	45 267 38	6.3	5	G	B	125	0.7	125	RL	58	P4	63	Pentode Sec.
6CR8	GM	T	45 910 80	6.3	5	M	C	125	2.0		RL	49	P4	63	Triode Sec.
6CW7	GM	T	45 690 70	6.3	5	P	B	90	1.5		RL	80	P4	65	Triode #1.
6CW7	GM	T	45 230 10	6.3	5	P	B	90	1.5		RL	80	P4	65	Triode #2.
6DC8	GM	T	45 261 39	6.3	5	M	C	220	2.0	100	RL	53	P4	65	Pentode Sec.
6DC8	EM	T	45 080 30	6.3	5	S	B	20AC	0		RL	44	P4	50	Diode #1.
6DC8	EM	T	45 070 30	6.3	5	S	B	20AC	0		RL	44	P4	50	Diode #2.
6DZ7	GM	T	27 564 80	6.3	10	G	B	250	7.3	250	RL	28	P4	63	Pentrode #1. Connect negative (−) end of 30v battery to pin 1 of loctal socket (count counterclockwise). Connect positive (+) end of battery to pin 8 of loctal socket.
6DZ7	GM	T	27 134 80	6.3	10	G	B	250	7.3	250	RL	28	P4	63	Pentode #2. Connect negative (−) end of 30v battery to pin 5 of loctal socket (count counterclockwise). Connect positive (+) end of battery to pin 8 of loctal socket. **Caution; Disconnect battery between selector changes.**

Tube type	Test	Function	Selectors (L to R)	Range				Meter setting				Shunt	Press to test	Minimum limit	Notes
				Filament	Bias	PL. SCR	GM SIG	Plate	Bias	Screen	SIG. VR				
6EM7	GM	T	78 450 60	6.3	5	J	D	250	3.0	-----	RL	55	P4	63	Triode #1.
6EM7	GM	T	78 120 30	6.3	50	L	B	150	20.0	-----	RL	67	P4	63	Triode #2.
6ES5	GM	T	34 250 10	6.3	5	G	B	200	1.0	-----	RL	40	P4	63	
6EV5	GM	T	34 156 20	6.3	5	M	B	195	1.2	80	RL	65	P4	63	
6EV7	GM	T	45 760 80	6.3	5	J	C	250	2.0	-----	RL	35	P4	65	Triode #1.
6EV7	GM	T	45 210 30	6.3	5	J	C	250	2.0	-----	RL	35	P4	65	Triode #2.
6EX6	GM	T	72 5A8 30	6.3	50	G	B	175	30.0	175	RL	43	P4	63	Tubes showing shorts: Re-test using 72 5A1 30.
6EZ5	GM	T	72 534 80	6.3	50	J	C	250	20.0	250	RL	45	P4	63	
6FH5	GM	T	34 250 70	6.3	5	M	B	135	1.0	-----	RL	44	P4	63	
6FH6	GM	T	72 5A4 80	6.3	50	J	B	250	22.5	150	RL	87	P4	65	
6FH8	GM	T	54 697 00	6.3	10	N	E	100	8.0	100	RL	20	P4	63	Tetrode plate #1.
6FH8	GM	T	54 687 00	6.3	10	N	E	100	4.6	100	RL	40	P4	63	Tetrode plate #2.
6FH8	GM	T	54 617 00	6.3	10	N	E	100	4.6	100	RL	40	P4	63	Tetrode plate #3.
6FH8	EM	T	54 230 00	6.3	5	R	A	35AC	0	-----	RL	19	P4	63	Triode Sec.
6FV8	GM	T	45 967 80	6.3	5	G	B	125	1.0	125	RL	77	P4	63	Pentode Sec.
6FV8	GM	T	45 120 30	6.3	5	G	B	125	1.0	-----	RL	57	P4	63	Triode Sec.
6FY8	GM	T	45 367 20	6.3	50	K	B	125	10.0	125	RL	62	P4	63	Pentode Sec.
6FY8	GM	T	45 190 80	6.3	5	M	D	125	1.5	-----	RL	33	P4	63	Triode Sec.
6GK6	GM	T	45 278 13	6.3	10	G	B	250	7.3	250	RL	46	P4	63	
6GN8	GM	T	45 798 60	6.3	5	L	B	200	3.0	150	RL	28	P4	63	Pentode Sec.
6GN8	GM	T	45 230 10	6.3	5	J	D	250	2.0	-----	RL	27	P4	63	Triode Sec.
7A6	EM	T	18 060 70	6.3	5	S	A	20AC	0	-----	RL	40	P2	50	Diode #1.
7A6	EM	T	18 030 20	6.3	5	S	A	20AC	0	-----	RL	40	P2	50	Diode #2.

8ET7	GM	T	45 798 60	7.5	5	L	B	200	2.5	150	RL	29	P4	65	Pentode Sec. } Adj. Fil
8ET7	EM	T	45 030 10	7.5	5	S	B	20AC	0	-----	RL	63	P2	40	Diode #1 } to 8.0.
8ET7	EM	T	45 020 10	7.5	5	S	B	20AC	0	-----	RL	63	P2	40	Diode #2
8GN8	GM	T	45 798 60	7.5	5	L	B	200	3.0	150	RL	28	P4	63	Pentode Sec. } Adj. Fil.
8GN8	GM	T	45 230 10	7.5	5	J	D	250	2.0	-----	RL	27	P4	63	Triode Sec. } to 8.0.
12AJ7	GM	T	45 261 37	12.6	5	L	C	200	1.5	150	RL	65	P4	65	Heptode Sec.
12AJ7	GM	T	45 980 36	12.6	5	L	C	150	1.5	-----	RL	42	P4	65	Triode Sec.
12BZ6	GM	T	34 156 27	12.6	D	H	B	200	CCW	150	RL	88	P4	65	
12DW7	GM	T	45 760 80	12.6	5	J	D	225	2.0	-----	RL	52	P4	67	Triode #1.
12DW7	GM	T	45 210 30	12.6	10	J	C	225	8.5	-----	RL	75	P4	65	Triode #2.
12FK6	EM	T	43 170 20	12.6	5	S	C	20AC	1.0	-----	RL	36	P2	65	Triode Sec.
12FK6	EM	T	43 060 20	12.6	5	S	B	20AC	0	-----	RL	49	P2	40	Diode #1.
12FK6	EM	T	43 050 20	12.6	5	S	B	20AC	0	-----	RL	49	P2	40	Diode #2.
12FQ8	GM	T	45 780 90	12.6	5	J	D	250	1.5	-----	RL	72	P4	63	Triode #1. Plate #1.
12FQ8	GM	T	45 760 90	12.6	5	J	D	250	1.5	-----	RL	72	P4	63	Triode #1. Plate #2.
12FQ8	GM	T	45 230 90	12.6	5	J	D	250	1.5	-----	RL	72	P4	63	Triode #2. Plate #1.
12FQ8	GM	T	45 210 90	12.6	5	J	D	250	1.5	-----	RL	72	P4	63	Triode #2. Plate #2.
12FX8	EM	T	45 231 79	12.6	5	S	B	20AC	0	-----	RL	20	P2, P3	65	Heptode Sec.
12FX8	EM	T	45 080 06	12.6	5	S	B	20AC	0	-----	RL	18	P2	65	Triode Sec.
12GA6	EM	T	34 756 21	12.6	5	S	B	20AC	0	-----	RL	62	P2, P3	65	
14GT8	GM	T	45 890 70	14.0	5	J	D	250	3.0	-----	RL	97	P4	63	Triode Sec.
14GT8	EM	T	45 020 30	14.0	5	S	A	20AC	0	-----	RL	100	P2	40	Diode #1.
14GT8	EM	T	45 060 10	14.0	5	S	A	20AC	0	-----	RL	100	P2	40	Diode #2.
17EW8	GM	T	45 760 80	20.0	5	K	B	200	2.1	-----	RL	88	P4	63	Triode #1 } Adj. Fil. to
17EW8	GM	T	45 210 30	20.0	5	K	B	200	2.1	-----	RL	88	P4	63	Triode #2 } 17.5.
19CL8A	GM	T	45 967 80	20.0	5	K	B	125	1.0	125	RL	77	P4	65	Tetrode Sec. } Adj. Fil.
19CL8A	GM	T	45 120 30	20.0	A	K	B	125	0.7	-----	RL	54	P4	65	Triode Sec. } to 18.9.
19EA8	GM	T	45 263 70	20.0	5	K	B	150	1.0	125	RL	80	P4	65	Pentode Sec. } Adj. Fil.
19EA8	GM	T	45 910 80	20.0	A	K	B	150	0	-----	RL	50	P4	65	Triode Sec. } to 18.9.
21EX6	GM	T	72 5A8 30	20.0	50	G	B	175	30.0	175	RL	43	P4	63	Adj. Fil. to 21.5. Tubes showing shorts: Re-test using 72 5A1 30.

Tube type	Test	Function	Selectors (L to R)	Range				Meter setting				Shunt	Press to test	Minimum limit	Notes
				Filament	Bias	PL. SCR	GM SIG	Plate	Bias	Screen	SIG. VR				
35EH5	GM	T	43 276 10	35.0	5	K	B	110	2.0	115	RL	27	P4	65	
35GL6	GM	T	34 275 10	35.0	50	K	B	110	7.5	110	RL	62	P4	63	
CK546DX	EM	T	53 412 00	1.5	5	Q	C	50	1.7	50	RL	95	P5	63	Adj. Fil. to 1.25.
117Z6GT	EM	T	72 030 40	117	5	R	A	35AC	0	-----	RL	24	P2	80	Diode #2.
117Z6GT	EM	T	72 050 80	117	5	R	A	35AC	0	-----	RL	24	P2	80	Diode #1.
829B	GM	T	71 6B3 40	12.6	50	G	B	225	12	200	RL	43	P4	64	Pentode #1 Rt. Pin.
829B	GM	T	71 2A3 40	12.6	50	G	B	225	12	200	RL	43	P4	64	Pentode #2 Lft. Pin.
1007	EM	T	78 030 00	1.1	5	G	A	130	0	-----	-----	10	P2	90	Diode #1. Adj. Fil. to 1.0.
1007	EM	T	78 050 00	1.1	5	G	A	130	0	-----	-----	10	P2	90	Diode #2. Adj. Fil. to 1.0.
2050W	TH	VR	72 503 86	6.3	5	L	F	-----	*5	135	FS	50	P5	Bias	Volts, 1.5 Min, 3.0 Max.
5686	GM	T	45 276 10	6.3	10	G	C	225	9.0	225	RL	55	P4	70	
5829	EM	T	35 060 70	6.3	5	S	A	20AC	0	-----	RL	63	P2	75	Diode #1.
5829	EM	T	35 010 20	6.3	5	S	A	20AC	0	-----	RL	63	P2	75	Diode #2.
5847	GM	T	39 168 40	6.3	E	N	B	65	CCW	60	RL	80	P4	70	
6148	GM	T	34 712 65	6.3	D	K	C	135	CCW	120	RL	31	P4	65	
6247	GM	T	39 180 50	1.1	E	M	C	180	-----	-----	RL	65	P4	70	
6286	GM	T	24 310 00	1.1	5	P	D	70	3.0	-----	RL	50	P4	60	Adj. Fil. to 1.25.
6332	VR	VR	00 001 20	OFF	5	N	F	1.5MA	0	-----	FS	50	P5	63	Max. } Max. Diff. −1.0
6332	VR	VR	00 001 20	OFF	5	N	F	0.2MA	0	-----	FS	50	P5	50	Min. }
6519	EM	T	53 412 00	1.5	5	Q	C	50	1.7	50	RL	95	P5	63	Adj. Fil. to 1.25.
6689	GM	T	45 261 39	6.3	5	J	B	210	2.1	120	RL	43	P4	63	
*6939	GM	T	54 387 20	12.6	5	H	D	200	3.5	150	RL	37	P4	63	Tetrode #1. Connect negative (−) end of

															30 V battery to pin 1 of octal socket. Connect positive (+) end of battery to pin 2 of octal socket.
*6939	GM	T	54 167 20	12.6	5	H	D	200	3.5	150	RL	37	P4	63	Tetrode #2. Connect negative (−) end of 30 V battery to pin 3 of octal socket. Connect positive (+) end of battery to pin 2 of octal socket. ***Caution:*** **Disconnect battery between selector changes.**
7119	GM	T	54 790 60	12.6	5	M	B	120	2.0	-----	RL	23	P4	63	Triode #1.
7119	GM	T	54 210 30	12.6	5	M	B	120	2.0	-----	RL	23	P4	63	Triode #2.
7167	GM	T	34 156 20	12.6	5	L	B	125	1.0	80	RL	70	P4	65	Adj. Fil. to 13.5.
7258	GM	T	45 867 91	12.6	5	L	B	160	0.9	125	RL	61	P4	63	Pentode Sec.
7258	GM	T	45 217 36	12.6	5	L	D	150	3.0	-----	RL	16	P4	63	Triode Sec.
7355	GM	T	72 638 50	6.3	50	G	B	250	15.0	225	RL	60	P4	63	
7360	GM	T	45 362 19	6.3	5	K	C	150	1.0	150	RL	28	P4	60	Connect pin 1 to pin 8 and pin 6 to pin 7 on loctal socket.
7543	GM	T	34 156 72	6.3	B	J	C	250	CCW	125	RL	42	P4	65	
7551	GM	T	45 263 17	12.6	50	G	B	250	18.0	250	RL	99	P4	65	Adj. Fil. to 13.5.
7558	GM	T	45 263 17	6.3	50	G	B	250	18.0	250	RL	99	P4	65	
9003	GM	T	34 156 27	6.3	5	M	D	175	2.4	80	RL	59	P4	64	Short in Z.

BY ORDER OF THE SECRETARY OF THE ARMY:

G. H. DECKER,
General, United States Army,
Chief of Staff.

Official:

R. V. LEE,
Major General, United States Army,
The Adjutant General.

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For explanation of abbreviations used, see AR 320-50.

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TB 11-2661-1
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DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

SUPPLEMENTARY TEST DATA FOR TEST SETS, ELECTRON TUBE TV-2/U, TV-2A/U, TV-2B/U, AND TV-2C/U

Headquarters, Department of the Army, Washington 25, D.C.
26 October 1961

TB 11-2661-1, 27 January 1960, is changed as follows:

Page 1. Change the title to: SUPPLEMENTARY TEST DATA FOR TEST SETS, ELECTRON TUBE TV-2/U, TV-2A/U, TV-2B/U, AND TV-2C/U.

Page 2, paragraph 3. Insert the following tube test data in the correct numerical order.

Tube type	Test	Function	Selectors (L to R)	Range				Meter setting				Shunt	Press to test	Minimum limit	Notes
				Filament	Bias	PL. SCR	GM SIG	Plate	Bias	Screen	SIG. VR				
2CW4	GM	T	31 420 80	2.0	5	N	B	70	0.2	------	RL	25	P4	65	Use Hickok Adapter Code No. 1050-127.
2ES5	GM	T	34 250 10	2.5	5	G	B	200	1.0	-------	RL	40	P4	63	Adj. Fil. to 2.35
2EV5	GM	T	34 156 20	2.5	5	M	B	195	1.2	80	RL	65	P4	63	Adj. Fil. to 2.4
2FQ5	GM	T	43 250 70	2.5	5	K	B	135	1.2	-------	RL	24	P4	65	Adj. Fil. to 2.3
2FY5	GM	T	34 250 16	2.5	5	K	B	135	1.0	-------	RL	20	P4	65	Adj. Fil. to 2.4
3EV5	GM	T	34 156 20	3.0	5	M	B	195	1.2	80	RL	65	P4	63	Adj. Fil. to 29.
3FQ5	GM	T	43 250 70	3.0	5	K	B	135	1.2	-------	RL	24	P4	65	Adj. Fil. to 2.8
3FY5	GM	T	34 250 16	3.0	5	K	B	135	1.0	-------	RL	20	P4	65	Adj. Fil. to 3.1
3GS8	GM	T	54 782 19	3.0	5	N	D	100	0	67.5	RL	80	P4	65	Pentode No. 1. Adj. Fil. to 9.15
3GS8	GM	T	54 732 16	3.0	5	N	D	100	0	67.5	RL	80	P4	65	Pentode No. 2. Adj. Fil. to 9.15
4BL8	GM	T	54 263 71	4.2	5	K	B	170	2.1	170	RL	82	P4	65	Pentode sec. Adj. Fil. to 4.6
4BL8	GM	T	54 910 86	4.2	5	N	C	100	2.0	-------	RL	37	P4	65	Triode sec. Adj. Fil. to 4.6
4GS8	GM	T	54 782 19	4.2	5	N	D	100	0	67.5	RL	80	P4	65	Pentode No. 1
4GS8	GM	T	54 732 16	4.2	5	N	D	100	0	67.5	RL	80	P4	65	Pentode No. 2
5ES8	GM	T	45 760 80	5.0	5	N	B	90	1.7	-------	RL	25	P4	65	Triode No. 1. Adj. Fil. to 5.6
5ES8	GM	T	45 210 30	5.0	5	N	B	90	1.7	-------	RL	25	P4	65	Triode No. 2. Adj. Fil. to 5.6
5FG7	GM	T	45 967 80	5.0	5	K	B	125	1.0	125	RL	85	P4	65	Pentode sec. Adj. Fil. to 4.7
5FG7	GM	T	45 120 30	5.0	5	G	B	125	1.1	-------	RL	60	P4	65	Triode sec. Adj. Fil. to 4.7
6CM4	GM	T	45 210 30	6.3	5	K	B	175	1.5	-------	RL	20	P4	65	
6CW4	GM	T	31 420 80	6.3	5	N	B	70	0.2	-------	RL	25	P4	65	Use Hickok Adapter Code No. 1050-127.
6EH7	GM	T	45 278 19	6.3	5	M	A	200	2.0	90	RL	65	P4	65	
6EJ7	GM	T	45 278 19	6.3	5	K	A	200	2.5	200	RL	100	P4	65	
6EQ7	GM	T	45 276 31	6.3	5	N	C	100	0.6	100	RL	100	P4	65	
6EQ7	EM	T	45 080 30	6.3	5	S	B	20AC	0	-------	RL	52	P4	65	Pentode sec.

6EU7	GM	T	21	870	90	6.3	5	J	D	200	2.0	-------	RL	62	P4	65	Triode No. 1
6EU7	GM	T	21	560	40	6.3	5	J	D	200	2.0	-------	RL	62	P4	65	Triode No. 2
6EW7	GM	T	45	760	80	6.3	50	J	C	250	11	-------	RL	68	P4	65	Triode No. 1
6EW7	GM	T	45	310	90	6.3	50	K	B	150	17.5	-------	RL	62	P4	65	Triode No. 2
6FA7	GM	T	45	798	61	6.3	5	N	D	100	1.4	100	RL	53	P4	65	Tetrode No. 1
6FA7	GM	T	45	718	69	6.3	5	N	D	100	1.4	100	RL	53	P4	65	Tetrode No. 2
6FA7	EM	T	45	930	61	6.3	5	S	B	20AC	0	-------	RL	58	P2	25	Diode sec.
6FE5	GM	T	72	534	80	6.3	50	K	B	130	11	130	RL	40	P4	65	
6FG5	GM	T	43	156	70	6.3	5	G	B	250	0.2	250	RL	65	P4	65	
6FG7	GM	T	45	967	80	6.3	5	K	B	125	1.0	125	RL	85	P4	65	Pentode sec.
6FG7	GM	T	45	120	30	6.3	5	G	B	125	1.1	-------	RL	60	P4	65	Triode sec.
6FQ5	GM	T	43	250	70	6.3	5	K	B	135	1.2	-------	RL	24	P4	65	
6FS5	GM	T	34	156	70	6.3	5	J	B	245	0.2	135	RL	43	P4	65	
6FW5	GM	T	27	158	30	6.3	50	J	C	250	22.5	150	RL	22	P4	65	
6FW8	GM	T	45	760	80	6.3	5	L	B	125	2.0	-------	RL	25	P4	65	Triode No. 1
6FW8	GM	T	45	210	30	6.3	5	L	B	125	2.0	-------	RL	25	P4	65	Triode No. 2
6FY5	GM	T	34	250	16	6.3	5	K	B	135	1.0	-------	RL	20	P4	65	
6GC5	GM	T	45	691	70	6.3	50	K	B	115	7.5	115	RL	55	P4	65	
6GM6	GM	T	43	156	27	6.3	5	J	B	175	0.8	125	RL	34	P4	65	
6GS8	GM	T	54	782	19	6.3	5	N	D	100	0	67.5	RL	80	P4	65	Pentode No. 1
6GS8	GM	T	54	732	16	6.3	5	N	D	100	0	67.5	RL	80	P4	65	Pentode No. 2
6GW6	GM	T	27	5A4	80	6.3	50	J	B	250	22.5	150	RL	67	P4	65	If tube oscillates, turn grid selector to "B." Connect 1,000Ω ½ W carbon resistor between pin 5 and top cap lead B.
6GY8	S	T	45	060	70	Off	----	Off	----	-------	-------	-------	-------	----	-------	----	Triode No. 1. Shorts test only.
6GY8	EM	T	45	060	70	6.3	5	S	A	125	0	-------	RL	70	P2	65	Triode No. 1. Short on V.
6GY8	GM	T	54	390	80	6.3	5	M	C	125	1.2	-------	RL	42	P4	65	Triode No. 2
6GY8	EM	T	54	120	00	6.3	5	S	B	35AC	0	-------	RL	12	P2	65	Triode No. 3
6HJ8	GM	T	45	263	19	6.3	5	K	B	125	0.5	125	RL	41	P4	65	Pentode sec.
6HJ8	EM	T	45	680	79	6.3	5	S	A	20AC	0	-------	RL	84	P2	25	Diode sec.
6HS8	GM	T	45	782	19	6.3	5	N	D	97.5	0	67.5	RL	84	P4	65	Pentode No. 1
6HS8	GM	T	45	732	16	6.3	5	N	D	97.5	0	67.5	RL	84	P4	65	Pentode No. 2
10BQ5	GM	T	45	279	30	10.0	10	G	B	250	7.2	250	RL	48	P4	65	Adj. Fil. to 10.6
12EQ7	GM	T	45	276	31	12.6	5	N	C	100	0.6	100	RL	52	P4	65	Pentode sec.
12EQ7	EM	T	45	080	30	12.6	5	S	B	20AC	0	-------	RL	58	P2	25	Diode sec.

Tube type	Test	Function	Selectors (L to R)	Range				Meter setting				Shunt	Press to test	Minimum limit	Notes
				Filament	Bias	PL. SCR	GM SIG	Plate	Bias	Screen	SIG. VR				
12FR8	EM	T	45 367 00	12.6	5	S	D	20AC	3.1	-------	RL	10	P2	65	Pentode sec.
12FR8	EM	T	45 190 20	12.6	5	S	D	20AC	0.5	-------	RL	27	P2	65	Triode sec.
12FR8	EM	T	45 080 20	12.6	5	S	D	20AC	0	-------	RL	20	P2	40	Diode sec.
12GC6	GM	T	72 5A8 30	12.6	50	J	B	250	22.5	150	RL	75	P4	65	
13EM7	GM	T	87 450 60	14.0	5	G	D	250	3.0	-------	RL	55	P4	65	Triode No. 1. Adj. Fil. to 13.0
13EM7	GM	T	87 120 30	14.0	50	K	C	150	20	-------	RL	30	P4	65	Triode No. 2. Adj. Fil. to 13.0
15EW6	GM	T	43 156 27	14.0	A	G	B	150	CCW	125	RL	21	P4	65	Adj. Fil. to 15.0
18HB8	GM	T	45 976 80	20.0	10	K	C	115	6.3	115	RL	25	P4	65	Pentode sec. Adj. Fil. to 18.0
18HB8	GM	T	45 130 20	20.0	5	K	C	115	1.0	-------	RL	50	P4	65	Triode sec. Adj. Fil. to 18.0
20EQ7	GM	T	45 276 31	20.0	5	N	C	100	0.6	100	RL	52	P4	65	Pentode sec.
20EQ7	EM	T	45 080 30	20.0	5	S	B	20AC	0	-------	RL	58	P2	25	Triode sec.
34GD5	GM	T	34 276 10	35.0	10	N	C	110	6.6	110	RL	27	P4	65	Adj. Fil. to 34.0
35HB8	GM	T	45 976 80	35.0	10	K	C	115	6.8	115	RL	25	P4	65	Pentode sec.
35HB8	GM	T	45 130 20	35.0	5	K	C	115	1.0	-------	RL	50	P4	65	Triode sec.
50FA5	GM	T	34 276 10	50.0	10	N	C	105	5.8	105	RL	26	P4	65	
50FE5	GM	T	72 534 80	50.0	50	K	B	130	11.0	130	RL	40	P4	65	
50FK5	GM	T	34 276 10	50.0	B	N	B	110	0	115	RL	32	P4	65	
60FX5	GM	T	43 276 10	70.0	5	K	B	115	3.2	115	RL	22	P4	65	Adj. Fil. to 60.0
5920	GM	T	43 520 70	6.3	5	N	C	100	2.1	-------	RL	21	P4	65	Triode No. 1
5920	GM	T	43 610 70	6.3	5	N	C	100	2.1	-------	RL	21	P4	65	Triode No. 2
6686	GM	T	45 278 39	6.3	5	G	B	210	3.0	210	RL	30	P4	65	
7370	GM	T	58 790 60	20.0	5	M	B	120	2.0	-------	RL	29	P4	65	Triode No. 1
7370	GM	T	84 210 30	20.0	5	M	B	120	2.0	-------	RL	29	P4	65	Triode No. 2
7581	GM	T	27 534 80	6.3	50	G	C	250	14	250	RL	23	P4	47	
7586	GM	T	31 420 80	6.3	5	Q	B	40	0	-------	RL	31	P4	65	Use Hickock Adapter Code No. 1050–127
7591	GM	T	27 638 50	6.3	50	G	B	250	10	250	RL	55	P4	65	

7687	GM	T	45	263	70	6.3	5	J	C	220	0.8	130	RL	30	P4	65	Pentode sec.
7687	GM	T	45	910	80	6.3	50	K	C	215	8.5	-------	RL	77	P4	65	Triode sec.
7695	GM	T	45	691	70	50.0	50	K	B	130	11	130	RL	24	P4	65	
7701	GM	T	45	269	10	14.0	50	G	C	250	12.5	250	RL	56	P4	65	Adj. Fil. to 13.6
7716	GM	T	45	798	60	12.6	B	J	B	200	0	125	RL	42	P4	65	Pentode sec.
7716	GM	T	45	230	10	12.6	5	M	C	125	1.0	-------	RL	69	P4	65	Triode sec.
7754	GM	T	45	691	70	6.3	50	K	B	130	11	130	RL	24	P4	65	
7759	GM	T	36	780	50	26.0	B	N	C	100	CCW	-------	RL	39	P4	65	Triode No. 1
7759	GM	T	36	210	40	26.0	B	N	C	100	CCW	-------	RL	39	P4	65	Triode No. 2
7760	GM	T	36	780	50	26.0	5	Q	B	40	0	-------	RL	85	P4	65	Triode No. 1
7760	GM	T	36	210	40	26.0	5	Q	B	40	0	-------	RL	85	P4	65	Triode No. 2
7761	GM	T	36	157	24	26.0	B	L	B	150	CCW	100	RL	45	P4	65	
7762	GM	T	36	157	42	26.0	E	N	C	110	0	-------	RL	47	P4	65	

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For explanation of abbreviations used, see AR 320–50.

U.S. GOVERNMENT PRINTING OFFICE: 1961

TB 11-2661-1
Changes No. 4

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

SUPPLEMENTARY TEST DATA FOR TEST SETS, ELECTRON TUBE TV–2/U, TV–2A/U, TV–2B/U, AND TV–2C/U

Headquarters, Department of the Army, Washington 25, D.C.
1 June 1962

TB 11–2661–1, 27 January 1960, is changed as follows:

Page 2, paragraph 3. The following tube test data are added.

644532°—62

Tube type	Test	Function	Selectors	Range				Meter setting				Shunt	Press to test	Min. LIM	Notes
				Filament	Bias	PL SCR	GM SIG	Plate	Bias	Screen	Sig. VR				
2FS5	GM	T	34 156 70	2.5	5	J	B	245	0.2	135	RL	43	P4	65	Adj Fil to 2.4
2GK5	GM	T	34 250 70	2.5	5	K	A	135	1.0	-----	RL	100	P4	65	Adj Fil to 2.3
3BX6	GM	T	45 278 19	3.0	5	K	B	170	2.0	170	RL	74	P4	65	Adj Fil to 3.4
3GK5	GM	T	34 250 70	3.0	5	K	A	135	1.0	-----	RL	100	P4	65	Adj Fil to 2.8
4AV6	GM	T	34 170 20	4.2	5	J	D	250	2.0	-----	RL	63	P4	65	Triode Sect.
4AV6	EM	T	34 060 20	4.2	5	S	B	20AC	0	-----	RL	58	P2	25	Diode #1
4AV6	EM	T	34 050 20	4.2	5	S	B	20AC	0	-----	RL	58	P2	25	Diode #2
5EW6	GM	T	43 156 27	5.0	A	G	B	150	CCW	125	RL	21	P4	65	Adj Fil to 5.6
6DG7	GM	T	34 156 72	6.3	B	M	C	175	CCW	80	RL	49	P4	65	
6DX8	GM	T	45 869 70	6.3	10	K	B	200	2.8	200	RL	35	P4	65	Pentode Sect.
6DX8	GM	T	45 120 30	6.3	5	K	C	200	2.1	-----	RL	55	P4	65	Triode Sect.
6EB5	EM	T	34 070 10	6.3	5	S	A	20AC	0	0	RL	27	P2	40	Diode #1
6EB5	EM	T	34 020 50	6.3	5	S	A	20AC	0	0	RL	27	P2	40	Diode #2
6ET7	GM	T	45 798 60	6.3	5	L	B	200	2.5	150	RL	29	P4	65	Pentode Sect.
6ET7	EM	T	45 030 10	6.3	5	S	B	20AC	0	-----	RL	63	P2	40	Diode #1
6ET7	EM	T	45 020 10	6.3	5	S	B	20AC	0	-----	RL	63	P2	40	Diode #2
6FD6	EM	T	34 165 72	6.3	50	S	B	20AC	0	-----	RL	60	P2	65	No leakage test
6FQ5A	GM	T	34 250 70	6.3	5	M	B	135	1.2	-----	RL	31	P4	65	
6FQ7	GM	T	45 760 80	6.3	10	G	C	250	8.0	-----	RL	75	P4	65	Triode #1
6FQ7	GM	T	45 210 30	6.3	10	G	C	250	8.0	-----	RL	75	P4	65	Triode #2
6GE8	GM	T	45 891 76	6.3	5	K	C	150	2.0	150	RL	63	P4	65	Pentode Sect.
6GE8	GM	T	45 360 29	6.3	50	K	B	150	21.0	-----	RL	100	P4	65	Triode Sect.
6GK5	GM	T	34 250 70	6.3	5	K	A	135	1.0	-----	RL	100	P4	65	
6GM5	GM	T	45 691 70	6.3	10	G	B	250	7.0	250	RL	33	P4	65	
6GM8	GM	T	45 760 80	6.3	5	Q	B	25	0	-----	RL	60	P4	65	Triode #1
6GM8	GM	T	45 210 30	6.3	5	Q	B	25	0	-----	RL	60	P4	65	Triode #2
6GX6	GM	T	34 156 27	6.3	D	L	C	150	CCW	100	RL	55	P4	65	

6GY6	GM	T	34 156 27	6.3	D	H	C	150	CCW	100	RL	54	P4	65	
6HB6	GM	T	45 278 19	6.3	B	G	A	250	CCW	250	RL	55	P4	65	
6HF8	GM	T	45 798 60	6.3	B	J	B	200	CCW	125	RL	30	P4	65	Pentode Sect.
6HF8	GM	T	45 230 10	6.3	5	J	C	200	2.0	-----	RL	45	P4	65	Triode Sect.
8FQ7	GM	T	45 760 80	7.5	10	G	C	250	8.0	-----	RL	75	P4	65	Triode #1 } Adj Fil
8FQ7	GM	T	45 210 30	7.5	10	G	C	250	8.0	-----	RL	75	P4	65	Triode #2 } to 8.4
10EM7	GM	T	78 450 60	10.0	5	J	D	250	3.0	-----	RL	55	P4	65	Triode #1 } Adj Fil
10EM7	GM	T	78 120 30	10.0	50	L	B	150	20.0	-----	RL	67	P4	65	Triode #2 } to 9.7
10HF8	GM	T	45 798 60	10.0	B	J	B	200	CCW	125	RL	30	P4	65	Pentode Sect. } Adj Fil
10HF8	GM	T	45 230 10	10.0	5	J	C	200	2.0	-----	RL	50	P4	65	Triode Sect. } to 10.5
12AU8	GM	T	45 798 60	12.6	B	L	B	200	CCW	125	RL	75	P4	65	Pentode Sect.
12AU8	GM	T	45 230 10	12.6	D	M	C	150	CCW	-----	RL	44	P4	65	Triode Sect.
12GW6	GM	T	27 5A4 80	12.6	50	J	B	250	22.5	150	RL	67	P4	65	If tube oscillates, turn grid selector to "B". Connect a 1000 Ω ½ W. carbon resistor between Pin 5 and top cap lead B.
13FR7	GM	T	45 760 80	12.6	5	G	D	250	3.0	-----	RL	55	P4	65	Triode #1 } Adj Fil
13FR7	GM	T	45 310 90	12.6	50	K	C	150	20.0	-----	RL	30	P4	65	Triode #2 } to 13.0
14JG8	GM	T	45 890 70	14.0	5	J	C	250	2.0	-----	RL	83	P4	65	Triode Sect.
14JG8	EM	T	45 060 10	14.0	5	S	A	20AC	0	-----	RL	50	P2	50	Diode #1
14JG8	EM	T	45 020 30	14.0	5	S	A	20AC	0	-----	RL	50	P2	50	Diode #2
15EA7	GM	T	78 450 60	14.0	5	J	D	250	3.0	-----	RL	50	P4	65	Triode #1 } Adj Fil
15EA7	GM	T	78 120 30	14.0	50	L	B	175	25.0	-----	RL	77	P4	65	Triode #2 } to 14.8
16A5	GM	T	45 279 30	14.0	50	K	B	170	10.5	165	RL	61	P4	65	Adj Fil to 16.5

Disregard shorts test after GM test. Allow 10 second intervals for zeroing quality meter and 10 second intervals between attempts to zero quality meter. Allow 5 seconds to obtain GM reading.

16A8	GM	T	45 367 20	14.0	50	G	B	200	16.0	200	RL	78	P4	65	Pentode Sec. } Adj Fil
16A8	GM	T	45 190 80	14.0	5	N	C	100	0	-----	RL	86	P4	65	Triode Sect. } to 16.0
17GW6	GM	T	27 5A4 80	20.0	50	J	B	250	22.5	150	RL	67	P4	65	Adj Fil to 16.8

If tube oscillates, turn grid selector to "B". Connect a 1000 Ω ½ W. carbon resistor between Pin 5 and top cap lead B.

Tube type	Test	Function	Selectors	Range				Meter setting				Shunt	Press to test	Min. LIM	Notes
				Filament	Bias	PL SCR	GM SIG	Plate	Bias	Screen	Sig VR				
19EZ8	GM	T	45 980 40	20.0	5	K	C	125	0.3		RL	47	P4	65	Triode #1 } Adj Fil
19EZ8	GM	T	45 760 40	20.0	5	K	C	125	0.3		RL	47	P4	65	Triode #2 } to 18.9
19EZ8	GM	T	45 230 10	20.0	5	K	C	125	1.0		RL	47	P4	65	Triode #3
19HV8	GM	T	45 967 80	20.0	5	K	B	125	1.0	125	RL	75	P4	65	Pentode Sect. } Adj Fil
19HV8	GM	T	45 120 30	20.0	5	N	D	100	1.0		RL	68	P4	65	Triode Sect. } to 18.9
20EZ7	GM	T	12 870 90	20.0	5	N	D	100	1.0		RL	77	P4	65	Triode #1
20EZ7	GM	T	12 560 40	20.0	5	N	D	100	1.0		RL	77	P4	65	Triode #2
40FR5	GM	T	34 276 10	35.0	10	N	B	110	7.5	110	RL	85	P4	65	Adj Fil to 40.0
5675	GM	T	27 350 60	6.3	A	M	B	125	CCW		RL	80	P4	65	Use Hickok adapter code No. 1050-121
5876	GM	T	27 350 60	6.3	B	J	B	250	CCW		RL	77	P4	65	Use Hickok adapter code No. 1050-121
6263	GM	T	27 350 60	6.3	B	M	B	200	CCW		RL	68	P4	65	Adj Fil to 6.0
Use Hickok adapter code No. 1050-121															
6264	GM	T	27 350 60	6.3	B	M	B	200	CCW		RL	73	P4	65	Adj Fil to 6.0
Use Hickok adapter code No. 1050-121															
6267	GM	T	45 961 38	6.3	5	J	C	250	2.0	140	RL	90	P4	65	
6947	GM	T	36 780 50	6.3	E	M	C	150	CCW		RL	50	P4	65	Triode #1
6947	GM	T	36 210 40	6.3	E	M	C	150	CCW		RL	50	P4	65	Triode #2
6948	GM	T	36 780 50	6.3	E	N	C	100	CCW		RL	58	P4	65	Triode #1
6948	GM	T	36 210 40	6.3	E	N	C	100	CCW		RL	58	P4	65	Triode #2
7316	GM	T	45 760 80	12.6	10	J	D	250	8.5		RL	45	P4	65	Triode #1
7316	GM	T	45 210 30	12.6	10	J	D	250	8.5		RL	45	P4	65	Triode #2

7408	GM	T	72 534 80	6.3	50	G	C	250	12.5	250	RL	48	P4	65	
7587	GM	T	31 4A2 80	6.3	A	M	B	125	CCW	50	RL	32	P4	65	Use Hickok adapter code No. 1050-127
7693	GM	T	34 156 27	6.3	B	J	C	250	CCW	150	RL	46	P4	65	
7694	GM	T	34 156 27	6.3	B	M	C	225	CCW	100	RL	60	P4	65	
7719	GM	T	45 210 30	12.6	10	J	C	250	10.0	-----	RL	58	P4	65	
7724	GM	T	45 890 70	14.0	5	J	D	250	3.0	-----	RL	97	P4	63	Triode Sect.
7724	EM	T	45 020 30	14.0	5	S	A	20AC	0	-----	RL	100	P2	40	Diode #1
7724	EM	T	45 060 10	14.0	5	S	A	20AC	0	-----	RL	100	P2	40	Diode #2
7728	GM	T	45 760 81	12.6	D	G	B	250	CCW	-----	RL	87	P4	65	Triode #1
7728	GM	T	45 210 36	12.6	D	G	B	250	CCW	-----	RL	87	P4	65	Triode #2
7729	GM	T	45 760 81	12.6	5	N	D	100	1.0	-----	RL	82	P4	65	Triode #1
7729	GM	T	45 210 36	12.6	5	N	D	100	1.0	-----	RL	82	P4	65	Triode #2
7730	GM	T	45 760 81	12.6	10	J	C	225	8.5	-----	RL	80	P4	65	Triode #1
7730	GM	T	45 210 36	12.6	10	J	C	225	8.5	-----	RL	80	P4	65	Triode #2
7731	GM	T	45 263 70	6.3	A	J	B	250	CCW	135	RL	95	P4	65	Pentode Sect.
7731	GM	T	45 910 80	6.3	A	G	B	150	CCW	-----	RL	53	P4	65	Triode Sect.
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7895	GM	T	13 420 80	6.3	D	N	B	110	CCW	-----	RL	45	P4	65	Use Hickok adapter code No. 1050-127

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11-157	57

NG: None.
USAR: None.
For explanation of abbreviations used, see AR 320-50.

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